

# CERAMAH TEKNIK TECHNICAL TALK

## Hillside development management and case study

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The above talk was delivered by Ir. Vincent Wong Khien Ngie (Consultant) on 18<sup>th</sup> May, 2022, via Zoom/ Facebook Live. Some 22 members participated. An abstract of the talk is given below:

**Abstract:** As land development in Malaysia grows rapidly, the suitable low lying areas for development have become more and more unavailable and the development of hilly terrain has been increased. However, such development required a proper and careful design as the hillside development may encounter flood, soil erosion, landslide, failure of slope, etc. The Project Manager for the hillside development must have a good understanding of the subsurface profile and properties in order to propose a most economical and suitable design with minimum risk to the property environment and economy but maintain the bottom figure of business profit. The design such as slope buffer zone, slope stability, and surface runoff requirement should achieve the safety engineering requirements as part of the compliance to the local authority. The various technical and authorities requirements will always cause the development no longer feasible with low Gross Development Value (GDV) or high Gross Construction Cost (GCC). In this talk, the essential consideration of hillside development, planning, feasibility study and management, technical consideration, authorities requirements, to be discussed together with few case studies of hillside development to enhance the knowledge of the audience.

We thank Ir. Vincent Wong for his support and contribution to the Society's activities.

Tan Boon Kong

Chairman, Working Group on Engineering Geology

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